Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for associating a <u>specific</u> subscriber with one of a plurality of port bundles, comprising:

reserving one of said the plurality of port bundles for said the specific subscriber if said the specific subscriber has not been assigned one of said the plurality of port bundles, the plurality of port bundles associated with an aggregation device;

changing an original source port number in a data packet to a port bundle number corresponding to said one of said the reserved one of the plurality of port bundles;

modifying a subscriber address in said the data packet to an assigned aggregation address; issuing a request to a remote management device for authentication of said the specific subscriber;

receiving a response from the <u>remote</u> management device including a state of authentication of <u>said</u> the <u>specific</u> subscriber;

of port bundles;

mapping said subscriber to said reserved port bundle in a port bundle object saving the mapping in a port bundle logical object; and

assigning said the reserved one of the plurality of port bundles to said the specific subscriber if said the specific subscriber is authenticated.

- 2. (Currently Amended) The method of claim 1, wherein each of said the plurality of port bundles includes a port bundle length, a port number, and an assigned aggregation address.
- 3. (Currently Amended) The method of claim 2, wherein said the port bundle number includes a range of sequential port numbers starting with a base port number.
- 4. (Currently Amended) The method of claim 3, wherein said the range of sequential port numbers is approximated by

range of sequential port numbers = 2^{port bundle length}

- 5. (Currently Amended) The method of claim 2, wherein said the port bundle length is an integer in a range of 1 to 16.
- 6. (Currently Amended) The method of claim 1, further comprising maintaining a status for said the specific subscriber.
- 7. (Currently Amended) The method of claim 6, further comprising signaling said the status to said the remote management device.
- 8. (Currently Amended) The method of claim 6, wherein said the status indicates whether said the specific subscriber is logged-on or logged-off.
- 9. (Currently Amended) The method of claim 1, further comprising:

changing said the assigned aggregation address to said the subscriber address; resetting said the port number to said the original source port number; and transmitting said the data packet to said the specific subscriber.

10. (Currently Amended) An apparatus for associating a specific subscriber with one of a plurality of port bundles, comprising:

at least one source port to receive at least one data packet, said the data packet having a subscriber address;

each of said the one of the plurality of port bundles coupled to said the source port;

a plurality of memories, each of said the plurality of memories coupled to one of said the plurality of port bundles;

a port bundle <u>logical</u> object in <u>coupled to</u> each of said the plurality of memories to associate said the subscriber with said the port bundle;

a processor coupled to said the plurality of port bundles; and an output port coupled to said the processor.

- 11. (Currently Amended) The apparatus of claim 10, wherein each of said the plurality of port bundles includes a port bundle length, a port number, and an assigned aggregation address.
- 12. (Currently Amended) The apparatus of claim 11, wherein said the base port number includes a range of sequential port numbers starting with a base port number.

13. (Currently Amended) The apparatus of claim 12, wherein said the range of sequential numbers is approximated by

range of sequential port numbers = 2 port bundle length

- 14. (Currently Amended) The apparatus of claim 11, wherein said the port bundle length is an integer in a range of 1 to 16.
- 15. (Currently Amended) The apparatus of claim 12, wherein said the base port number signals the status of said subscriber.
- 16. (Currently Amended) An apparatus for associating a <u>specific</u> subscriber with one of a plurality of port bundles, comprising:

means for reserving one of said the plurality of port bundles for said the specific subscriber if said the specific subscriber has not been assigned one of said the plurality of port bundles, the plurality of port bundles associated with an aggregation device;

means for changing an original source port number in a data packet to a port bundle number_corresponding to said one of said the reserved one of the plurality of port bundles;

means for modifying a subscriber address in said the data packet to an assigned aggregation address;

means for issuing a request to a remote management device for authentication of said the specific subscriber;

means for receiving a response from the <u>remote</u> management device including a state of authentication of <u>said</u> the <u>specific</u> subscriber;

means for <u>creating a mapping between the specific subscriber and the reserved one of the</u> plurality of port bundles;

mapping said subscriber to said reserved port bundle in a port bundle object means for saving the mapping in a port bundle logical object; and

means for assigning said the reserved one of the plurality of port bundles to said the specific subscriber if said the specific subscriber is authenticated.

- 17. (Currently Amended) The apparatus of claim 16, wherein each of said the plurality of port bundles includes a port bundle length, a port number, and an assigned aggregation address.
- 18. (Currently Amended) The apparatus of claim 17, wherein said the port bundle number includes a range of sequential port numbers starting with a base port number.
- 19. (Currently Amended) The apparatus of claim 18, wherein said the range of sequential port numbers is approximated by

range of sequential port numbers = 2^{port bundle length}

- 20. (Currently Amended) The apparatus of claim 17, wherein said the port bundle length is an integer in a range of 1 to 16.
- 21. (Currently Amended) The apparatus of claim 15, further comprising means for maintaining a status for said the specific subscriber.

- 22. (Currently Amended) The apparatus of claim 21, further comprising means for signaling said the status to said the remote management device.
- 23. (Currently Amended) The apparatus of claim 21, wherein said status indicates whether said the specific subscriber is logged-on or logged-off.
- 24. (Currently Amended) The apparatus of claim 15, further comprising:

 means for changing said the assigned aggregation address to said the subscriber address;

 means for resetting said the port number to said the original source port number; and

 means for transmitting said the data packet to said the specific subscriber.
- 25. (Currently Amended) A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method for associating a specific subscriber with one of a plurality of port bundles, said method comprising:

reserving one of said the plurality of port bundles for said the specific subscriber if said the specific subscriber has not been assigned one of said the plurality of port bundles, the plurality of port bundles associated with an aggregation device;

changing an original source port number in a data packet to a port bundle number corresponding to said one of said the reserved one of the plurality of port bundles;

modifying a subscriber address in said the data packet to an assigned aggregation address; issuing a request to a remote management device for authentication of said the specific subscriber;

receiving a response from the <u>remote</u> management device including a state of authentication of <u>said</u> the <u>specific</u> subscriber;

creating a mapping between the specific subscriber and the reserved one of the plurality of port bundles;

mapping said subscriber to said reserved port bundle in a port bundle object saving the mapping in a port bundle logical object; and

assigning said the reserved one of the plurality of port bundles to said the specific subscriber if said the specific subscriber is authenticated.